

# 3M™ Power Clamp Wiremount Plug

3 mm, IDC, Wiremount, Panel Mount option

358 Series



- Easy, labor saving, and reliable IDC termination
- Easy field termination with no special tooling or wire preparation – no stripping or tinning
- Semi-Transparent color-coded covers for wire inspection and wire retention
- CC-Link communication Interconnect Standard
- One-touch latching mechanism maintains a reliable interconnection in demanding field applications and requires only one hand to easily mate and unmate
- Integrated Dust Cover also provides secure locking mechanism when mated to Wiremount Socket
- Polarization ensures proper interconnecting of mated pairs
- Quick Insertion Panel Mount option
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3M.com/interconnects](http://www.3M.com/interconnects) for compliance information (RIA E1 & C1 apply).

Date Modified: December 20, 2009

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## Physical

### Insulation:

Body Material: Nylon  
Cover Material: Polycarbonate  
Flammability: UL 94V-0  
Body Color: Black  
Cover Color: Clear, Yellow, Blue, Red

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 2.5  $\mu\text{m}$  Ni minimum  
Wiping Area: 0.5  $\mu\text{m}$  Au minimum  
IDC Termination Area: 2.5  $\mu\text{m}$  Au minimum

**Wire Accomodation:** 18 & 20 AWG: PVC, TFE, Foamed PE insulation with solid or 7 - 19 stranded Tinned or Silver Cu.  
MIL-W- 16878/5 EE, MIL-W- 16878/4 E, MIL-W- 16878/1, MIL-W- 16878/2 C  
CC-Link Ver 1.10 Cables  
Contact 3M for additional wire accommodations

**Mating Compatability:** 355, 35T Series, 35715-L010 (with same polarization)

## Electrical

**Current Rating:** 18 AWG: 10A (1 contact); 7A (2 - 5 contacts)  
20 AWG: 9A (1 contact); 6A (2 - 5 contacts)  
Rating Conditions: 30° C maximum temperature rise

**Voltage Rating:** 250 V

**Insulation Resistance:** 10<sup>3</sup> M $\Omega$  min. at 600 V<sub>DC</sub>

**Withstanding Voltage:** 1,000 V<sub>RMS</sub> for 1 minute

## Environmental

**Temperature Rating:** -20°C to +75°C ambient  
UL Rating: 65° C

UL File No: E68080

**3M**

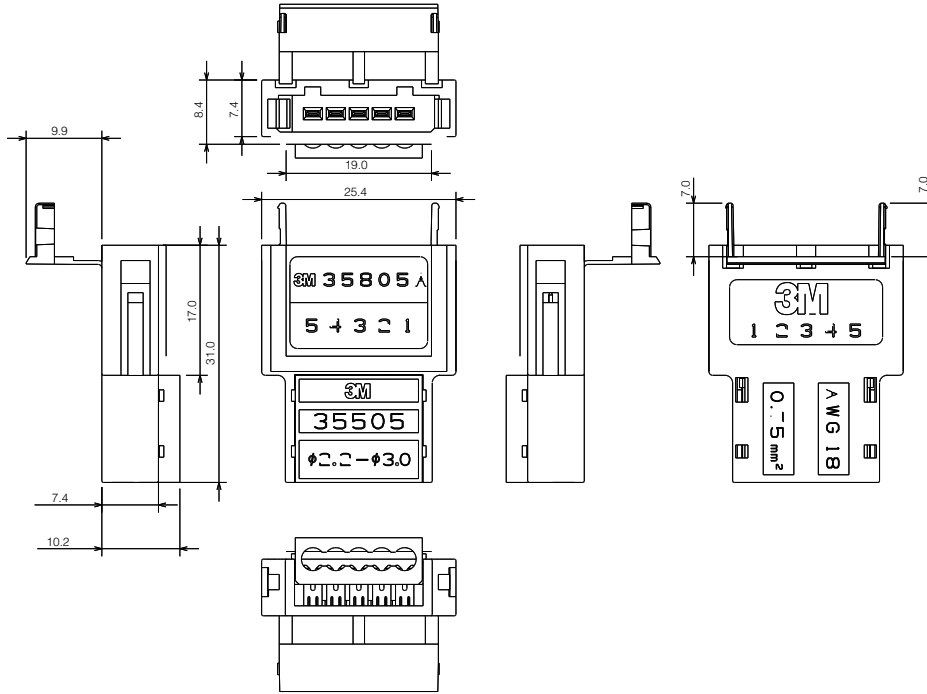
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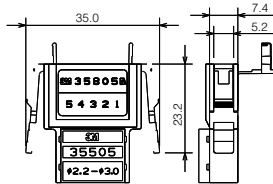


mm  
[Inch]

| Tolerance Unless Noted |    |     |      |
|------------------------|----|-----|------|
|                        | 0  | .0  | .00  |
| mm                     | ±1 | ±.3 | ±.13 |

[ ] Dimensions for Reference Only

Panel Mount type



## Available Part Numbers

| 3M Part Number     | Outside Diameter Range of Wire | Wire Gauge | Cover Color | Panel Mount |
|--------------------|--------------------------------|------------|-------------|-------------|
| 35805-6080-A00 GF  | 2.2 - 3.0 mm                   | 18 AWG     | Clear       | No          |
| 35805-6080-AP0 GF  | 2.2 - 3.0 mm                   | 18 AWG     | Clear       | Yes         |
| 35805-6180-A00 GF  | 2.0 - 2.3 mm                   | 18 AWG     | Blue        | No          |
| 35805-6180-AP0 GF  | 2.0 - 2.3 mm                   | 18 AWG     | Blue        | Yes         |
| 35805-6200-A00 GF  | 1.6 - 2.0 mm                   | 20 AWG     | Yellow      | No          |
| 35805-6200-AP0 GF  | 1.6 - 2.0 mm                   | 20 AWG     | Yellow      | Yes         |
| 35805-6000-B0M GF* | 2.2 - 3.0 mm                   | 20 AWG     | Red         | No          |
| 35805-6000-BPM GF* | 2.2 - 3.0 mm                   | 20 AWG     | Red         | Yes         |

\* 35805-6000-BXM GF connects communication cable with 3 discrete and 1 drain wire. Twist drain wire 7 or more times to tighten strands and insert into wire position #5.

## Ordering Information

**35805 - 6XX0 - XXX - GF** (RIA E1 and C1 Apply)

Wire Outside Diameter:

- 0: 2.2 - 3.0 mm
- 1: 2.0 - 2.3 mm
- 2: 1.6 - 2.0 mm

Wire Size:

- 0: 20 AWG
- 8: 18 AWG

Option:

- 0: 3M Original
- M: Drain Wire

Mounting Type:

- 0: Standard
- P: Panel Mount

Polarizing Key:

- A: Type A (wide)
- B: Type B (narrow)

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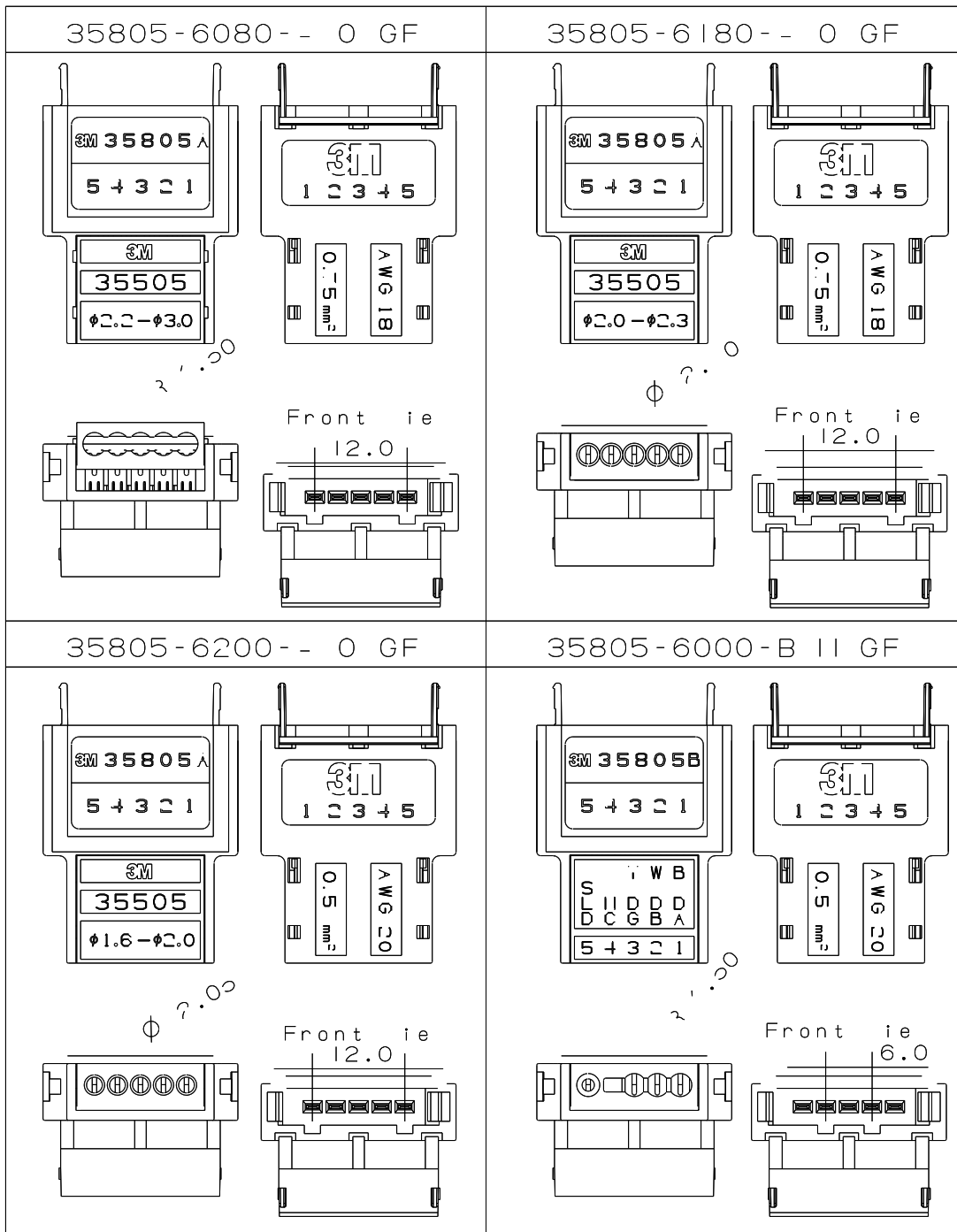
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**3M Electronics Solutions Division**

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RIA-2217B-E

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